

WHAT IS CLAIMED IS:

1. An electrochemical cell comprising a housing, a positive and a negative terminal, an anode comprising lithium, a cathode comprising a cathode active material selected from the group of vanadate compounds consisting of CuV_2O_6 and $\text{Cu}_2\text{V}_2\text{O}_7$ and any mixture thereof.

2. The cell of claim 1 wherein said cell is nonrechargeable.

3. The cell of claim 1 wherein said cathode active material selected from the group of vanadate compounds consisting of CuV_2O_6 and $\text{Cu}_2\text{V}_2\text{O}_7$ and any mixtures thereof, comprises between about 1 and 95 percent by weight of the cathode (electrolyte free basis).

4. The cell of claim 1 wherein said cathode active material further comprises a manganese dioxide.

5. The cell of claim 1 wherein said cathode further comprises manganese dioxide heat treated to remove water therefrom.

6. The cell of claim 1 wherein said cathode further comprises a lithiated manganese dioxide.

7. The cell of claim 1 wherein said cathode further comprises a conductive carbon comprising graphite.

8. An electrochemical cell comprising a housing, a positive and a negative terminal, an anode comprising lithium, a cathode comprising CuV_2O_6 , and a nonaqueous electrolyte.

9. The cell of claim 8 wherein the cell is nonrechargeable.

10. The cell of claim 8 wherein said cathode further comprises a manganese dioxide.

11. The cell of claim 8 wherein said cathode further comprises a lithiated manganese dioxide.

12. The cell of claim 8 wherein the CuV_2O_6 comprises between about 1 and 95 percent by weight of the cathode (electrolyte free basis).

13. The cell of claim 8 wherein the CuV_2O_6 comprises between about 60 and 95 percent by weight of the cathode (electrolyte free basis).

14. The cell of claim 8 wherein said cathode further comprises manganese dioxide heat treated to remove water therefrom.

15. The cell of claim 8 wherein said cathode further comprises a lithiated manganese dioxide.

16. The cell of claim 8 wherein said cathode further comprises a conductive carbon comprising graphite.

17. An electrochemical cell comprising a housing, a positive and a negative terminal, an anode comprising lithium, a cathode comprising $\text{Cu}_2\text{V}_2\text{O}_7$, and a nonaqueous electrolyte.

18. The cell of claim 17 wherein said cell is nonrechargeable.

19. The cell of claim 17 wherein said cathode further comprises a manganese dioxide.

20. The cell of claim 17 wherein the $\text{Cu}_2\text{V}_2\text{O}_7$ comprises between about 1 and 95 percent by weight of the cathode (electrolyte free basis).

21. The cell of claim 17 wherein the $\text{Cu}_2\text{V}_2\text{O}_7$ comprises between about 60 and 95 percent by weight of the cathode (electrolyte free basis).

22. The cell of claim 17 wherein said cathode further comprises manganese dioxide heat treated to remove water therefrom.

23. The cell of claim 17 wherein said cathode further comprises a lithiated manganese dioxide.

24. The cell of claim 17 wherein said cathode further comprises a conductive carbon comprising graphite.